



# **Pi BayArea Plan**

**Developing a Sustainable Community Strategy  
for the Bay Area**

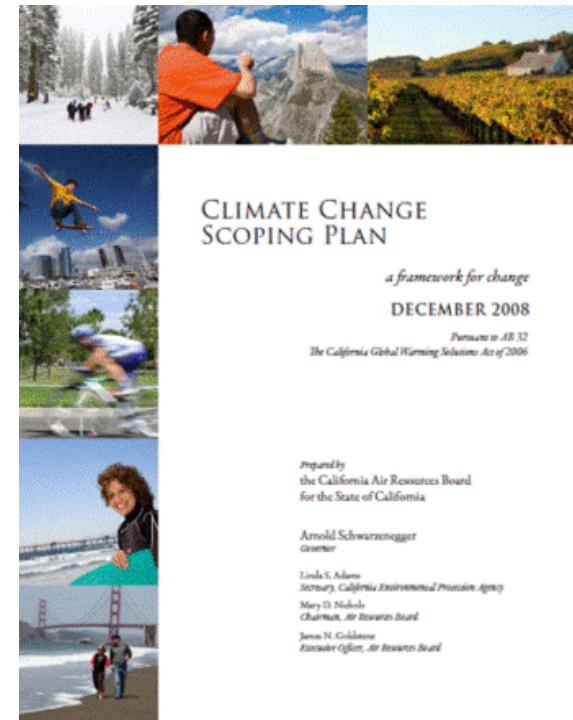
**APEC Transportation and Energy Ministerial Conference**

**Steve Heminger, MTC Executive Director**

**September 13, 2011**

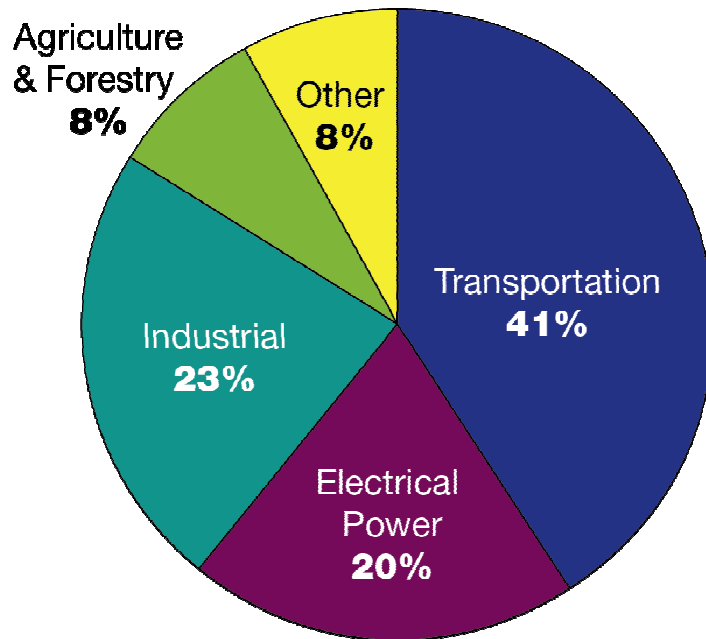
# AB 32 Global Warming Solutions Act of 2006

- AB 32 establishes the first comprehensive program of regulatory and market mechanisms in the nation to achieve greenhouse gas (GHG) emissions reductions
- AB 32 sets GHG emissions limit for 2020 at 1990 level
  - Acknowledges that 2020 is not the endpoint
  - Points way towards 80% reduction by 2050
- Air Resources Board (ARB) adopted a Scoping Plan to achieve AB 32's GHG emissions reduction target



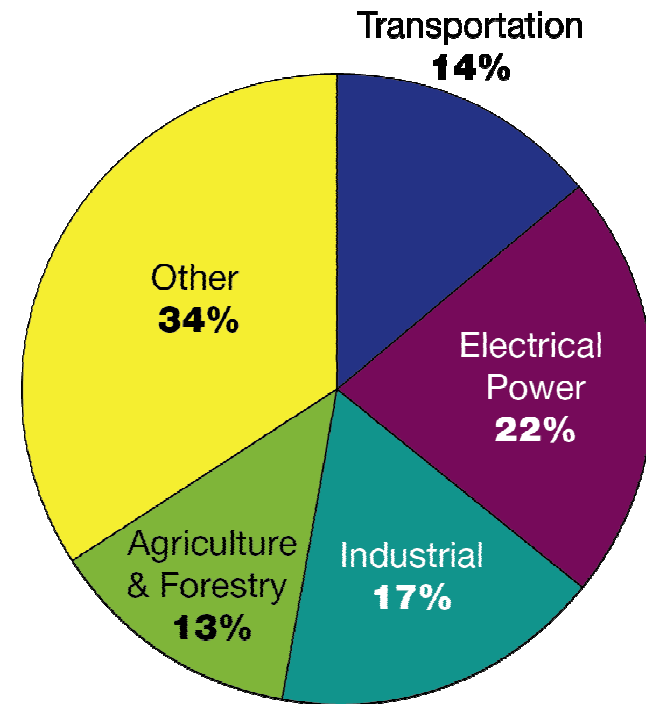
# Greenhouse Gas Emissions By Source

**California Greenhouse Gas Emissions  
By Source**



Source: California Climate Action Team

**World Greenhouse Gas Emissions  
By Source**



Source: U.S. Energy Information Administration

# California's Three Pronged Approach to Reducing Transportation Greenhouse Gases

(AB 32 Scoping Plan estimates for GHG reductions in 2020)

- Cleaner vehicles (Pavley, AB 32) - 38 million metric tons
- Cleaner fuels (Low-Carbon Fuel Standard) - 15 million metric tons
- More sustainable communities (SB 375) - 5 million metric tons



# ARB Adopted GHG Targets — September 2010

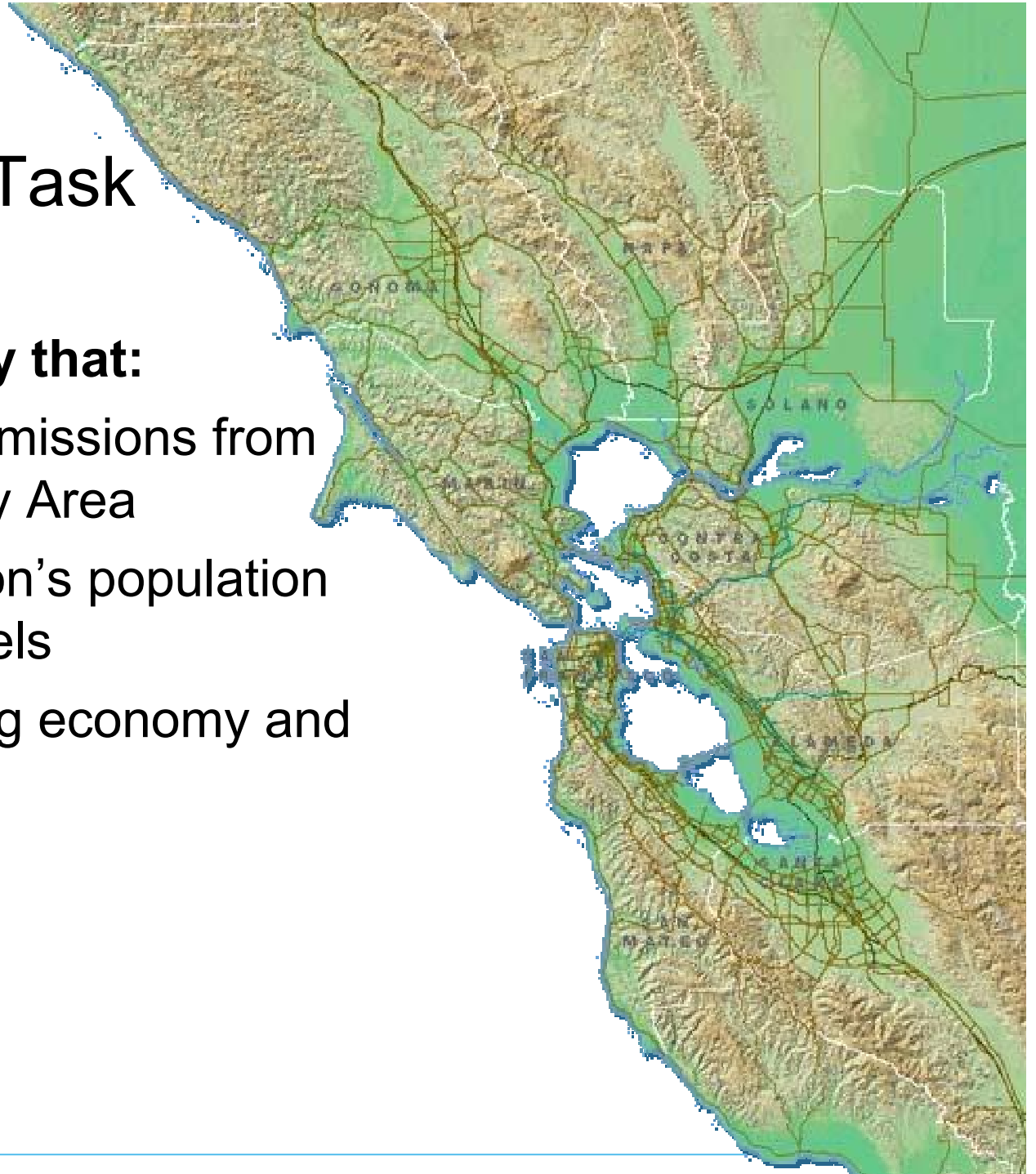
Percent Reduction in Per Capita Emissions from 2005 to Target Year		
	2020	2035
Bay Area	7%	15%
Sacramento	7%	16%
San Diego	7%	13%
Los Angeles	8%	13%
Central Valley	5%	10%

# **SB 375**

## **The Regional Task**

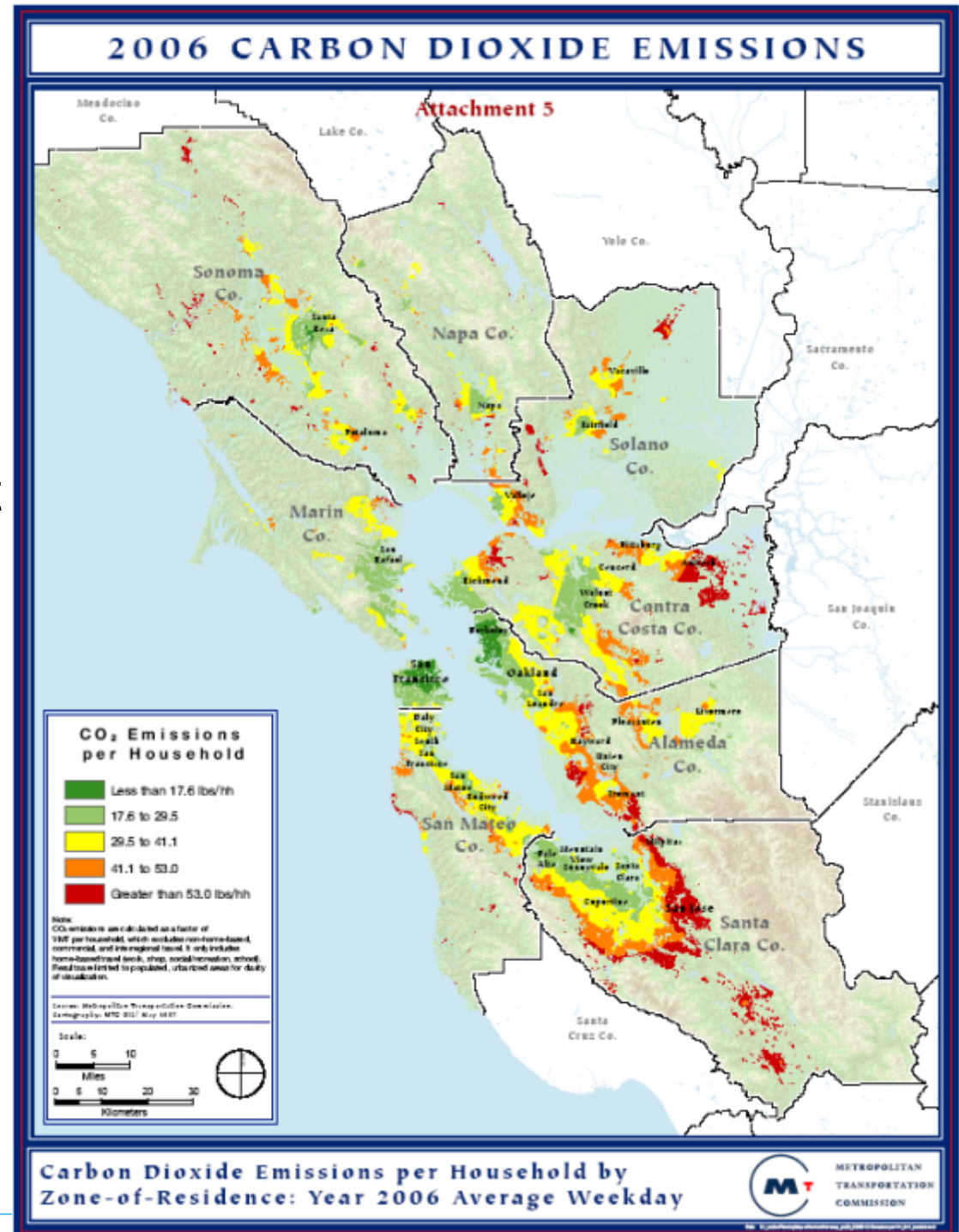
### **Develop a strategy that:**

- Reduces GHG emissions from driving in the Bay Area
- Houses the region's population at all income levels
- Supports a strong economy and quality of life

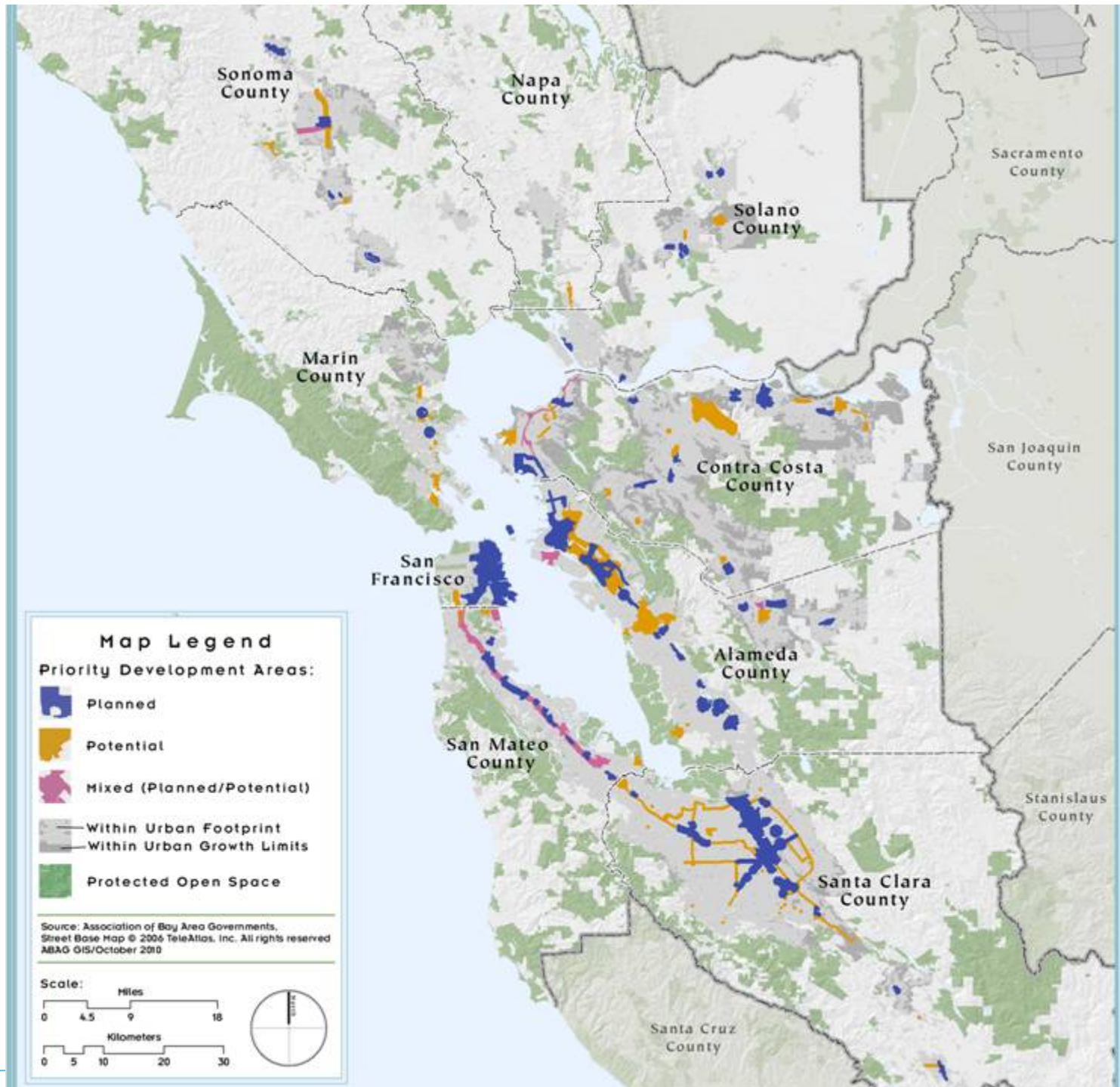


# Location Matters

- **Growing Cooler:**  
Compared to sprawl, compact development results in a 20 to 40 percent reduction in VMT and hence in CO<sub>2</sub>







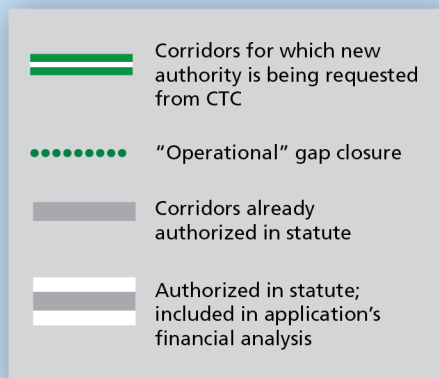


# Price Matters Too

- **Core Pricing:**  
Driving is more expensive in the urban core with higher parking costs and bridge tolls

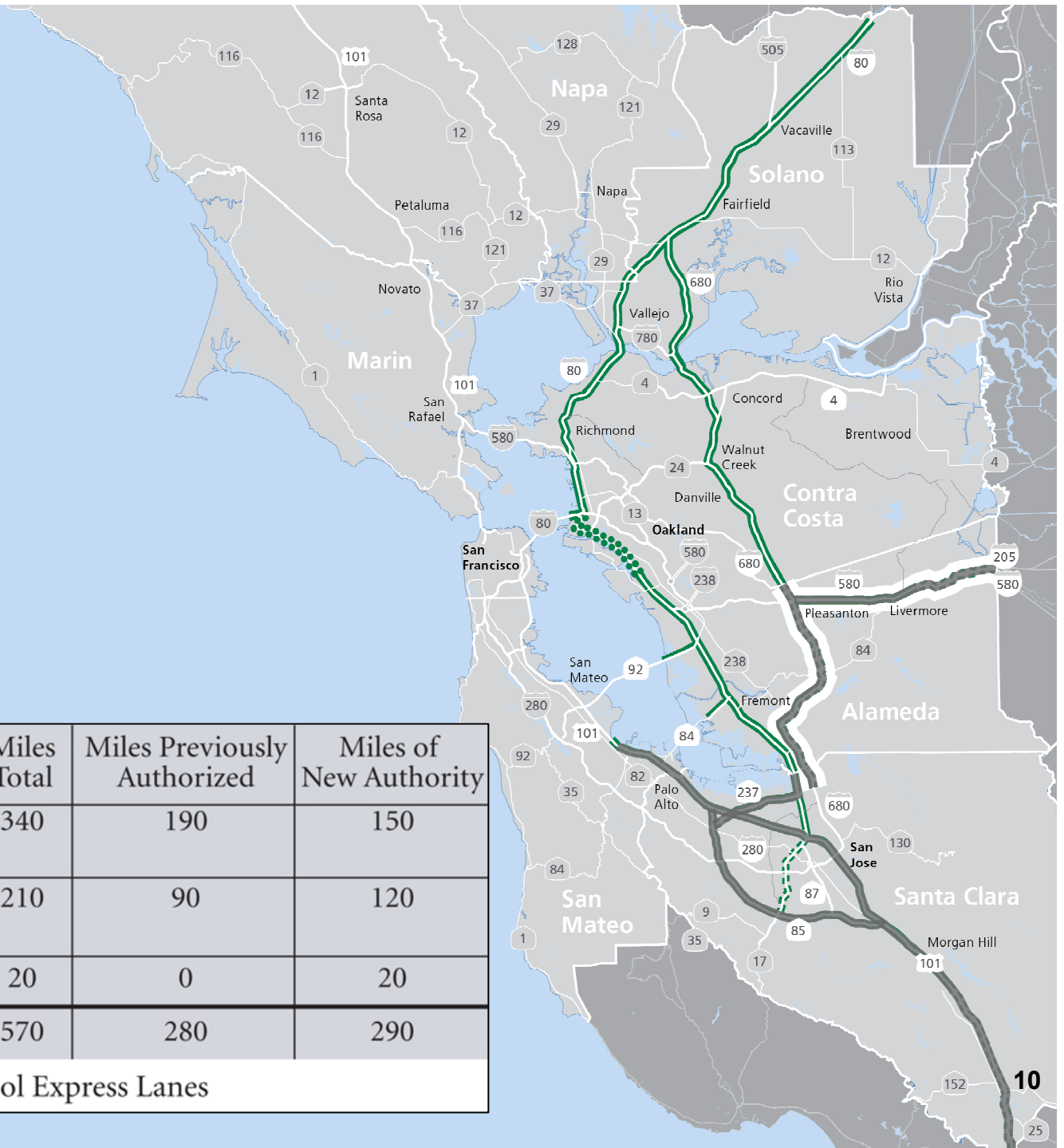


## CTC Application Express Lane Network



	Miles Total	Miles Previously Authorized	Miles of New Authority
Convert existing HOV lanes to Express Lanes*	340	190	150
Widen existing freeways to create Express Lanes	210	90	120
Operational gap closure	20	0	20
<b>Total</b>	<b>570</b>	<b>280</b>	<b>290</b>

\*includes the existing I-680 Sunol Express Lanes



# Adapting to a Rising Bay

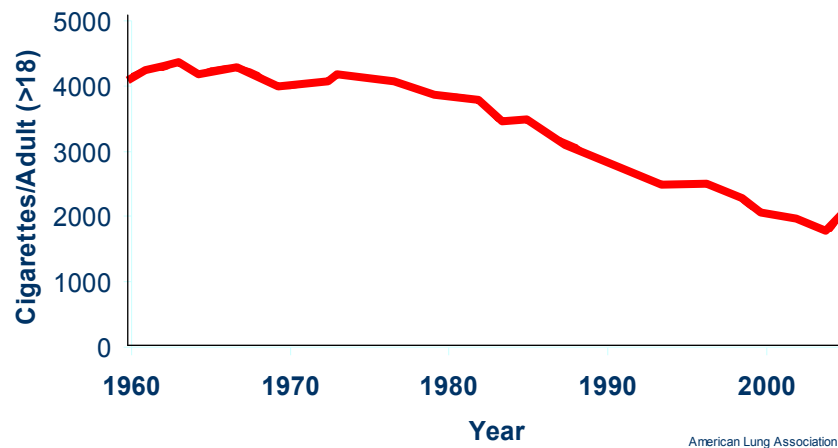
- Bay Area Cost of Required Defenses to Guard Against Flooding from 1.4 meter sea-level rise: **\$5.3 billion**
- Replacement Value of Bay Area Buildings and Contents at Risk of 100-year Flood due to 1.4 meter sea-level rise: **\$62 billion**  
(50% residential cost)



# Changes In Attitude and Behavior Are Essential

- Breakthroughs are possible!

Annual U.S. Cigarette Consumption



California's Recycling Rate

